



REPLACEMENT

Title: UDP-Glucose Modifiers
Applicant: Fader et al.
Application No.: 09/913064
Atty: L. Y. Beardell 302-992-4926

Figure 1A

SEQ ID NO: 25	MVASS-QKILVTGSAGFIGTHTVVQLLNGFNVSIIIDFNDNSVMEAVREVVGSNLSQ	***** ** *** ** ** ** *	
SEQ ID NO: 26	MSS---QTVLVTGGAGYIGSHTVLQLLGGFKAVVDNLDNSSETAIHRVKELACK-FAG		
SEQ ID NO: 14	MVSSSS-QHILVTGGAGFIGTHTVVQLLKAGFSVSIIDFNDNSVMEAVDRVVGPLLSSQ		
SEQ ID NO: 16	---AR-GSVLVTGGAGFIGTHTVLQLEKGYAVTAVDNFHNVSVEALDRVRHIVGPALSA		
SEQ ID NO: 18	T-----		
SEQ ID NO: 20	MVSALLRTILVTGGAGYIGSHTVLQLLQGFVVVDNLDNASELAAILRVRELAGEH-NAN		
SEQ ID NO: 22	MRD---KTVLVTGGAGYIGSHTVLQLLGGFRAVVDNLDNLENSSEVAIHRVRELAGE-FGN		
	1		60
SEQ ID NO: 25	NLEFTLGDLRNKDDLEKLFSSKSFDAVIHFAGLKAVGESVENPRRYFDNNLVGTINLYEV	* * * * *	
SEQ ID NO: 26	NLSFHKLDLRDRDALEKIFSSTKFDSVIHFAGLKAVGESVQKPLLYYDNNLIGTIVLFEV		
SEQ ID NO: 14	NLQFTQGDLRNRDDLEKLFSKTTFDAVIHFAGLKAVAESVAKPRRYFDNVLGTINLYEF		
SEQ ID NO: 16	RLQFIFGDLTIKDDLEKVFAAKYDAVIHFAGLKAVAESVAHPMYNRRNNIVGTVNLYDV		
SEQ ID NO: 18	-----RIDLRDKGALEMVFASTRFEAVIHFAGLKAVGESVQKPLLYYDNNVIGTINLLEV		
SEQ ID NO: 20	NLDFRKVDLRDKQALDQIFSSQRFDAVIHFAGLKAVGESVQKPLLYYDNNLIGTITLLQV		
SEQ ID NO: 22	NLSFHKVDLRDRAALDQIFSSQTFDAVIHFAGLKAVGESVQKPLLYYNNNLGTITLLEV		
	61		120
SEQ ID NO: 25	MAKHNCCKMVFSSSATVYQPEKIPCVEDFKLQAMNPYGRTKLFLLEEIARDIQKAEPEWR	* * * * *	
SEQ ID NO: 26	MAAHGCKKLVFSSSATVYGLPKEVPCTEEFPLSAANPYGRTKLIIEEICRDIYRAEQEWK		
SEQ ID NO: 14	MAKYNCKKMVFSSSATVYQPEKIPCEEDFKLQAMNPYGRTKLFLLEEIARDIQKAEPEWK		
SEQ ID NO: 16	MKKHGCNKLVFSSSATVYQPEKVPCEFDSPKALNPYGRTKLYLEEMLRDYGHANPEWR		
SEQ ID NO: 18	MSVHGCKKLVFSSAAVYQSPKNSPTENFPLTPNNPYGKTKLVVEDICRDIYRSDPEWK		
SEQ ID NO: 20	MAAHGCTKLVFSSSATVYQWPKEVPCTEESPLCAMNPYGRTKLVIEDMCRDLHASDPNWK		
SEQ ID NO: 22	MAAHGCKKLVFSSSATVYQWPKEVPCTEEFPLSAMNPYGRTKLIIEEICRDVHCAEPDCK		
	121		180

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Figure 1B

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*****
SEQ ID NO:25 IVLLRYFNPVGAHESGKLGEDPRGIPNNLMPYIQQVAVGRLPELNVYGHDPTRDGSAIR
SEQ ID NO:26 IILLRYFNPVGAHPSGYIGEDPRGIPNNLMPFVQQVAVGRRPALTVFGNDYTTSDGTGVR
SEQ ID NO:14 IILLRYFNPVGAHESGKLGEDPKGIPNNLMPYIQQVAVGRLTELVNVDYTRDGSAIR
SEQ ID NO:16 TILLRYFNPIGAHESGDI GEDPKGVNNLLPYIQQVAVARRPELVNVDYTRDGTAVR
SEQ ID NO:18 IILLRYFNPVGAHPSGYLGEDPRGIPNNLMPYVQVAVGRRPALTVLGNDYATRDGTGVR
SEQ ID NO:20 IILLRYFNPVGAHPSGYIGEDPCGIPNNLMPFVQQVAVGRRPALTVYGTDTNTKDGTVR
SEQ ID NO:22 IILLRYFNPVGAHPSGYIGEDPRGIPNNLMPFVQQVAVGRRPALTVFGNDYNTSDGTGVR
181
*****
SEQ ID NO:25 DYIHVMDLADGHIAALRKLFTSEN-IGCTAYNLGTRGSSVLEMVAAFEKASGKKIALKL
SEQ ID NO:26 DYIHVVLDLADGHIAALRKL--NDPKIGCEVYNLGTGKTSVLEMVKAFEQASGKKIPLVM
SEQ ID NO:14 DYIHVMDLADGHIAALRKLFTTEN-IGCTAYNLGTRGTSVLEMVTAFEKASGKKIPVKL
SEQ ID NO:16 DYIHVVLDLADGHIAALEKLFATPD-IGCVAYNLGTRGTTVLEMVSAFEKAYGKKIPVKM
SEQ ID NO:18 DYIHVVLDLADGHIAALQKLFENSS-IGCEAYNLGTRGTSVLEIVKAFEKASGKKIPLIF
SEQ ID NO:20 DYIHVVLDLADGHIAALRKLIEDSDRIGCEVYNLGTGKTSVLEMVAAFEKASGKKIPLVF
SEQ ID NO:22 DYIHVVLDLADGHIAALLKL--DEPNIGCEVYNLGTGKTSVLEMVRAFEMASGKKIPLVM
241
*****
SEQ ID NO:25 CRRPGDATEVYASTAKAEKELGWKAKYGVVEEMCRDQWNWAKNNPWGYSG-----KP----
SEQ ID NO:26 AGRRPGDAEVVYASTNKAERELNWKAKYGIDEMCRDQWNWASKNPYGYGSEDSSN-----
SEQ ID NO:14 CRRPGDATEVYASTERAELGWKAKYGVVEEMCRDQWNWAKNNPWYAG-----KP----
SEQ ID NO:16 CRRPGDSEQVYASTAKAEELGWAKYGIEEMCRDQWNWAKNNPWYGYCGNAAENKD-----
SEQ ID NO:18 GERRPGDAEILFSETTKAERELNWKAKYGIEEMCRDQWNWASKNPYGYGSPDSIKQNGHQ
SEQ ID NO:20 AGRRPGDAEIVYAQTAKAEKELGWKAKYGVVEEMCRDLWNWASKNPYGYG-SPDSSN-----
SEQ ID NO:22 AGRRPGDAEIVYASTKKAERELNWKAKYGIDEMCRDQWNWASKNPYGYGD-QGSTD-----
301
*****

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Figure 1C

SEQ ID NO:25	-----	
SEQ ID NO:26	-----	
SEQ ID NO:14	-----	
SEQ ID NO:16	-----	
SEQ ID NO:18	TNGSADSSKQNGHRTNGSTDSPKRNHGHAYGSADSPKRNHCHCVFGSSDLKPNGNGHLR	
SEQ ID NO:20	-----	
SEQ ID NO:22	-----	
	361	418